VOLUME CONTENTS

VOLUME 31 NUMBER 1 CONTENTS 1991

G. P. KAYUKOVA, G. P. KURBSKII, R. K. GABITOVA, YE. V. LIFANOVA, L. Z. NIGMEDZYANOVA and G. V. ROMANOV	1	Prediction of the quality of petroleum products from biodegraded crude oils
A. T. TELESHEV, N. V. KOLESNICHENKO, N. A. MARKOVA, YE. V. SLIVINSKII, YE. M. DEMINA, V. I. KURKIN, G. A. KORNEYEVA, S. M. LOKTEV and E. YE. NIFANT'YEV	9	Hydroformylation of butenes-2 in the presence of rhodium-carbonyl catalysts modified with organophosphorus(II) ligands
L. S. GLEBOV, A. N. SHUIKIN, G. A. KLIGER, V. G. ZAIKIN, A. I. MIKAYA, A. YE. YATSENKO and S. M. LOKTEV	15	Hydrogen transfer in the hydrogenation and hydrodeoxygenation of cycloalkanones on a sintered iron catalyst
KH. M. ALIMARDANOV	22	Kinetics and mechanism of cyclohexane dehydrogenation to cyclohexene in the presence of molecular oxygen
N. A. YELISEYEV	30	Thermodynamic investigation of equilibrium dehydrogenation of higher *n*-paraffins to monoolefins
A. V. DEVEKII, N. V. TRUSHOVA and M. I. YAKUSHKIN	36	Oxidative acetoxylation of cyclic coupled alkadienes
T. YE. SULEIMANOV, E. G. GUSEINOVA, V. P. VISLOVSKII, E. A. MAMEDOV and R. G. RIZAYEV	43	Features of the oxidative ammonolysis of ethylbenzene on a V–Sb–Bi oxide catalyst
A. V. ANISIMOV, A. A. GRISHKYAN, A. B. RYABOV and A. V. TARAKANOVA	47	Transformations of cyclopropane hydrocarbons on a rhenia–alumina metathesis catalyst
G. S. SERGIYENKO, V. I. ZHUKOV and G. P. BELOV	52	Selective dimerization of ethylene to butene-1 on a Ti $(OC_4H_9)_4$–Al (*iso*-$C_4H_9)_3$–MgC_2H_5Br catalytic system
YU. N. SIDORENKO and P. N. GALICH	57	Selective alkylation of methyl-substituted aromatic hydrocarbons on acid and basic zeolites
K. I. KOBRAKOV, N. G. POPANDOPULO, V. N. PERCHENKO, R. SH. ABUBAKIROV and G. A. SHVEKHGEIMER	70	Complexes of polyethyleneimine with ruthenium and rhodium chlorides as catalysts of the addition of polyhalides to unsaturated compounds
L. I. ZAKHARKIN, V. A. LIKHOMANENKO, V. F. TSVETKOV, S. P. KORSHUNOV, Z. KH. ZIGANSHINA and V. V. GUSEVA	75	Study of the epoxidation of *cis*-, *trans*-, *trans*-cyclododecatriene-1,5,9 by *tert*-butyl and cumyl hydroperoxides with catalysis by molybdenum compounds
I. V. SABLUKOVA, S. A. BORISENKOVA, A. F. VIL'DANOV, YE. Z. GOLOSMAN, A. V. MAZGAROV and V. I. YAKERSON	82	Oxidation of mercaptans on a bifunctional phthalocyanine catalyst

A. KH. SHARIPOV, Z. A. SULEIMANOVA, I. S. FAIZRAKHMANOV and R. M. MASAGUTOV — 90 — Oxidation of petroleum sulphides by hydrogen peroxide in the presence of acids

D. MINKOV, D. DIMOV, D. DEVCHIYEVA and V. STOYEVA — 97 — Reaction of 2,2,4-trimethylpentane with aluminium nitrate

Z. A. MANSUROV, G. O. TURESHEVA, V. I. PESTEREV, V. T. POPOV and A. A. MERKULOV — 103 — Investigation of the formation of polycyclic aromatic hydrocarbons during the low-temperature combustion of propane

V. R. ANTIPENKO, L. I. ZEMTSEVA and G. S. PEVNEVA — 108 — Extraction of heteroatomic components from heavy crude oil with binary dimethylformamide–metal chloride systems

O. P. PARENAGO and A. I. NEKHAYEV — 116 — Seventh International Petrochemical Symposium

VOLUME 31 NUMBER 2 CONTENTS 1991

KH. M. MINACHEV, A. A. DERGACHEV and N. YA. USACHEV — 123 — Catalytic conversions of low-molecular weight hydrocarbons

V. A. KURBATOV — 138 — Urgent problems facing the Soviet oil refining and petrochemical industry

YE. D. RADCHENKO, E. F. KAMINSKII and YE. A. IVANOVA — 145 — Tengiz crude oil as promising feedstock for oil refining and the petrochemical industry

S. N. KHADZHIYEV, A. A. KAMENSKII, V. N. KASTERIN, A. F. NESTEROV, V. P. PROKOF'YEV, I. L. ALEKSANDROVA, YE. A. YESIPKO, V. A. KUZ'MINA, L. V. SHALIMOVA, V. A. TREMASOV and O. V. KRYUKOV — 153 — Waste-free and energy-saving processes for the processing of hydrocarbon petroleum fractions on zeolite-containing catalysts

V. M. GRYAZNOV — 161 — Prospects of synthesizing C_2–C_3 olefins from carbon monoxide and hydrogen

YE. I. BAGRII, P. A. PLATE, I. N. NEVEROVA and B. A. KRENTSEL' — 167 — Certain prospects of using biotechnology in petrochemical and fine organic synthesis

V. M. FROLOV, O. P. PARENAGO, L. P. SHUIKINA, A. V. NOVIKOVA, YE. G. KLIGER and K. K. TURISBEKOVA — 174 — Unconventional catalysts for the hydrogenation of unsaturated compounds based on complexes of platinum metals with nitrogen-containing ligands

A. L. LAPIDUS, A. YU. KRYLOVA and L. V. SINEVA — 183 — Reduction polymerization of acetylene in the presence of Co-catalysts

L. A. NEKHAYEVA, B. A. KRENTSEL', V. P. MAR'IN, I. M. KHRAPOVA, V. L. KHODZHAYEVA, A. I. MIKAYA and S. I. GANICHEVA — 188 — Study of ethylene and propylene oligomerization on alkylzirconocene dichloride–methylalumoxane system

G. A. KLIGER, L. S. GLEBOV, O. A. LESIK and S. M. LOKTEV — 200 — Catalytic synthesis of nitrogen-containing heterocycles from oxygen-containing compounds, ammonia and hydrogen

N. A. SHELPAKOVA, N. V. VORONTSOVA and A. YA. YUFFA — 209 — Decomposition of cumyl hydroperoxide in the presence of silica-based sulphocationites

YE. I. BAGRII, V. F. TRET'YAKOV, YE. A. TRUSOVA, V. T. POPOV and D. I. SLOVETSKII — 216 — Investigation of the reaction of carbon-coated Ni-containing contacts with CO, CO_2, NO, NH_3 and CH_4 by the pulse method

G. A. KOVTUN — 227 — New trends in the creation of antioxidants for petroleum products

V. F. KAM'YANOV, A. K. LEBEDEV, P. P. SIVIRILOV and T. A. FILIMONOVA — 237 — Process and products of ozonization of heavy crude oil

T. KH. MELIK-AKHNAZAROV, I. T. KOZLOV, T. P. MITUSOVA, M. B. KOSTYUKOVSKAYA, N. M. KARPOVA and I. A. PUGACH — 246 — Problems of producing low-sulphur furnace fuel oil

VOLUME 31 NUMBER 3 CONTENTS 1991

A. KH. SHARIPOV — 251 — New developments in the production of sulphoxide and sulphone concentrates from crude oil. Review

N. E. KALYUZHNYI, V. M. SIDORENKO, S. M. SHISHATSKII and YU. P. YAMPOL'SKII — 260 — Membrane separation of oil gas hydrocarbons

I. G. KALININA and R. Z. MAGARIL — 271 — Influence of oxygen-containing organic compounds on the thermal decomposition of *n*-hexane

K. M. GITIS, L. T. TATIASHVILI, R. E. SEREBRYAKOV, G. YE. NEUMOYEVA, M. I. ZARETSKII, A. V. DOLIDZE and G. V. ISAGULYANTS — 276 — Production of methylcyclopentadiene by the dehydrogenation of methylcyclopentene

E. A. KARAKHANOV, S. V. KARDASHEV and S. V. LYSENKO — 283 — Study of acidity of cracking catalysts modified with tin compounds

O. I. KONDRAT'YEV, B. YU. SMIRNOV, V. S. SAFRONOV, G. YA. BOGOMOLOVA and N. V. NEKRASOV — 287 — Investigation of the stability of iron–chromium–potassium catalysts in the dehydrogenation of propylbenzenes

E. A. KARAKHANOV, M. V. KLYUYEV, L. V. TERESHKO, O. V. KALININA and A. G. DEDOV — 292 — Hydrogenation of aromatic nitro compounds on soluble metal–polymer catalysts

I. M. ZHVANETSKII and A. S. BERENBLYUM — 299 — Influence of carbon monoxide on the hydrogenation of acetylene in ethylene

Z. G. PIKH, N. I. KOSMINA, V. YA. SAMARIK and A. A. SHERED'KO — 304 — Catalytic oxidation of unsaturated aldehydes by hydrogen peroxide

A. V. ARTEMOV, E. F. VAINSHTEIN, N. N. PAVLOV and V. M. LINKOV — 312 — Influence of close surroundings of active centre on catalysis of liquid-phase oxidative processes

A. KH. MAMEDOV, S. R. MIRZABEKOVA, S. A. DZHAMALOVA and V. S. ALIYEV — 319 — Oxidative conversion of propane to C_2–C_3 olefins on manganese-containing catalysts in presence of HCl

KH. M. ALIMARDANOV, E. T. SULEIMANOVA, A. T. SHAKHTAKHTINSKAYA, V. S. MEKHTIYEV, Z. M. MAMEDOVA and S. Z. ALIYEVA — 327 — Oxidative conversion of cyclohexane hydrocarbons on bimetal–zeolite catalysts

M. A. MAMEDOV and E. T. SULEIMANOVA — 336 — Continuous production of 5-methylnorbornene-2

YU. B. AMERIK and N. A. PLATE — 341 — Deep conversion of heavy petroleum fractions via mesomorphic structures

V. P. KUKHAR' — 366 — Petroleum chemistry and ecology

S. I. KRYUKOV, I. V. DZYUBA and V. A. SMIRNOV — 373 — Synthesis of organic compounds based on methylcyclopentene

S. A. BORISENKOVA — 379 — New aspects of the heterogeneous catalysis of thiol oxidation by phthalocyanines

V. N. ROMANNIKOV, A. S. LOKTEV, A. N. SPEKTOR, G. L. BITMAN, K. G. IONE and P. S. CHEKRII — 399 — Scientific principles and technological aspects of the selective synthesis of 1,2,4,5-tetramethylbenzene on pentasil-type zeolites

YE. N. VOSKRESENSKAYA, L. I. KURTEYEVA and A. G. ANSHITS — 407 — New Bi_2O_3-based catalysts for oxidative dimerization of methane

L. V. SHEVEL'KOVA, L. M. VEDENEYEVA and L. YE. GUSEL'NIKOV — 413 — Thermal processing of C_5 fraction of pyrocondensate

VOLUME 31 NUMBER 4 CONTENTS 1991

N. S. VOROB'YEVA, V. G. PUNANOV, Z. K. ZEMSKOVA and A. A. PETROV — 423 — Petroleum tricyclic diterpanes

I. A. MATVEYEVA, M. I. BEKAURI, A. YU. KOLESNIKOV and A. A. PETROV — 427 — Polycyclic aromatic hydrocarbons of 200–400°C medium fraction of crude oil

A. YU. KOLESNIKOV, I. A. MATVEYEVA, M. I. BEKAURI and A. A. PETROV — 440 — Polycyclic aromatic hydrocarbons of medium fractions of crude oils from different fields

A. N. KHRYASHCHEV, D. F. KUSHNAREV, A. V. ROKHIN, O. G. POPOV, I. A. POSADOV, G. A. KALABIN and D. A. ROZENTAL' — 449 — Features of ^1H NMR spectroscopy of petroleum asphaltenes

A. N. KHRYASHCHEV, D. F. KUSHNAREV, O. G. POPOV, I. A. POSADOV, A. V. ROKHIN, V. I. DONSKIKH, D. A. ROZENTAL' and G. A. KALABIN — 455 — Determination of layered-packed associates of petroleum asphaltenes by means of Fourier ^1H NMR spectroscopy

V. S. YELISEYEV and I. U. NUMANOV — 461 — Acid-catalytic degradation of resinous-asphaltene compounds of crude oil

B. L. VOROB'YEV, YU. N. KOSHELEV, YE. P. KHVOROVA, A. A. KHARCHENKO, O. M. ORANSKAYA, S. M. ZVEREV and K. M. MUKHENBERG — 465 — Acidity and catalytic properties of modified ZSM-5 zeolites in propane aromatization

YU. I. PYATNITSKII, S. N. ORLIK, O. P. NESTEROVA and G. G. GIRUSHTIN — 472 — Combined and separate hydrogenation of CO and acetylene on catalysts containing group VIII metals

V. I. KASHKOVSKII, P. N. GALICH, K. I. PATRILYAK and L. M. ROYEV — 480 — Nature of activity of zeolite catalysts for isobutane alkylation by butenes

V. Z. SHARF, A. M. MEZHERITSKII, V. I. DEREVTSOV, V. N. TROFIMOV and N. V. EKKERT — 490 — Conversion of 4-methyl-4-hydroxytetrahydropyran on solid acid catalysts

G. A. KLIGER, O. A. LESIK, E. V. MARCHEVSKAYA, A. I. MIKAYA, V. G. ZAIKIN, L. S. GLEBOV and S. M. LOKTEV — 494 — Synthesis of nitrogen-containing heterocycles on iron catalyst

A. N. SHUIKIN, G. A. KLIGER, L. S. GLEBOV and E. V. MARCHEVSKAYA — 498 — Properties of reduced promoted sintered iron catalyst in reaction of alcohols and ketones with $(CH_3)_2NH$ and H_2

A. L. LAPIDUS, M. M. SAVEL'YEV and M. V. TSAPKINA — 502 — Fe–Mn catalysts for synthesis of hydrocarbons from CO and H_2

V. B. DEL'NIK, M. G. KATSNEL'SON, B. V. KRASII, YU. M. LEVIN and S. L. CHURAKOV — 506 — Use of mechanical impact activation to produce cobalt carbonyls from cobalt carbonate

T. A. ZAIMOVSKAYA, G. N. KUZ'MINA, P. I. SANIN and O. P. PARENAGO — 512 — Investigation of antioxidation effect of molybdenum dithiocarbamates by kinetic method

M. I. RUSTAMOV, V. R. MARDUKHAYEV and A. P. MAMEDOV — 520 — Polycyclic aromatic radicals in high-boiling hydrocarbons of crude oil and their thermal stability

K. I. SADYKHOV, P. SH. MAMEDOVA, Z. D. TAGIYEVA, S. A. ABASOVA and N. A. MAMEDOVA — 524 — Aminomethyl derivatives of 2,6-di-α-methylbenzyl-substituted phenols as oil antioxidants

V. A. BEGAR, V. A. KUZNETSOV, V. V. AFONIN and I. G. FUKS — 528 — Some aspects of studying structural and dynamic characteristics of petroleum oils by means of spin-probe EPR spectroscopy

G. YU. SITNIKOVA, N. V. RASTOVA, S. L. DAVYDOVA and YU. B. AMERIK — 535 — Comparative assessment of spectral methods for determining vanadium in heavy petroleum residues

YE. M. KHAR'KOVA and B. A. KRENTSEL' — 539 — Catalytic conversions of allene hydrocarbons. Cooligomerization of allene and methylacetylene

Z. POPOVA, K. ARISHCHIROVA, KH. DIMITROV and A. IVANOVA — 547 — Aromatization of C_6 hydrocarbons on ZSM-5 zeolites

M. YANKOV and KH. DIMITROV — 553 — Selective dimerization of propylene to 4-methyl-pentene-1

M. YANKOV and KH. DIMITROV — 556 — Isomerization of cyclohexane on dealuminized natural mordenite

T. N. ANTONOVA, YE. M. CHABUTKINA, G. N. KOSHEL', I. G. FAL'KOV, O. P. YABLONSKII, A. P. KARAVAYEVA, I. V. BUDNII, N. V. KARASEVA and S. S. BELYAYEVA — 559 — Synthesis of polyfunctional cycloaliphatic compounds based on petrochemical feedstock

V. M. KURGANOV, V. A. KHAVKIN, A. N. ZENCHENKOV and L. N. OSIPOV — 566 — Dearomatization of middle distillates with production of ecologically clean diesel fuel

VOLUME 31 NUMBER 5 CONTENTS 1991

F. A. CHERNYSHKOVA — 571 — Heteropolyacids and their salts as new promising catalysts for petrochemical and organic synthesis

N. A. VANYUKOVA, YE. B. FROLOV, P. I. SANIN and O. P. PARENAGO — 585 — Hopanoic acids in crude oils from the Starogroznyi field

I. M. SOKOLOVA, E. S. GERVITS, N. N. ABRYUTINA and A. A. PETROV — 595 — Synthesis and relative thermodynamic stability of diastereomers of 1,2-, 1,3- and 1,4-dimethylbicyclo[4.4.0]decanes

A. N. KHRYASHCHEV, O. G. POPOV, N. A. POSADOV and D. A. ROZENTAL' — 601 — Energy aspects of layered-packed associations of petroleum asphaltenes

S. F. BAKIROVA and S. M. YAG'YAYEVA — 605 — Investigation of structure of porphyrinic crude oils from Kazakhstan

N. A. VANYUKOVA, YE. B. FROLOV and O. P. PARENAGO — 610 — Acceleration of epimerization of C-17, C-21 and C-22 asymmetrical centres of petroleum hopanoic acids under influence of carboxyl group

S. V. KOTOV, K. V. PROKOF'YEV, YE. I. SEMAYEV and V. N. FILIN — 616 — Synthesis of alkylaromatic hydrocarbons from olefins of butane-butene fraction

A. L. LAPIDUS, V. S. BUDTSOV, A. P. SAVOST'YANOV, A. YU. KRYLOVA, V. D. MEZHOV and V. G. BAKUN — 623 — Influence of physiochemical characteristics on properties of Co catalysts for synthesis of hydrocarbons from CO and H_2

A. KH. MAMEDOV, S. R. MIRZABEKOVA, SH. A. NURIYEV and V. S. ALIYEV — 627 — Conversion of propane with carbon dioxide into C_2–C_3 olefins and CO

L. F. KORZHOVA, YE. A. YAROPOLOVA and T. V. PORTNOVA — 635 — Alkylation of 3,5-xylenol by methanol in the presence of γ-Al_2O_3

V. V. BELOV, O. V. ISAYEV, L. G. ROMANOVSKAYA, YE. V. BELYAYEVA, L. I. SULA and P. N. VORONIN — 640 — Synergism during amination of *n*-butanol on mixed nickel catalysts

G. B. SHUL'PIN and M. M. KATS — 647 — Photochemical oxidation of saturated and alkylaromatic hydrocarbons by atmospheric oxygen in CH_3CN or CH_2Cl_2 solution, catalyzed by iron(III) halides

G. B. SHUL'PIN, G. V. NIZOVA and M. M. KATS — 657 — Oxidation of alkanes and arylalkanes in solutions by atmospheric oxygen during light irradiation, catalyzed by copper halides

S. R. TRUSOV and A. S. EDZHINYA — 666 — Liquid-phase catalytic oxidation of 1,2-diphenylethane

T. M. NAGIYEV, Z. M. NAGIYEVA and CH. A. MUSTAFAYEVA — 670 — Gas-phase oxidation of propylene by hydrogen peroxide

L. F. KORZHOVA, YU. V. CHURKIN and K. M. VAISBERG — 678 — Conversions of isophorone in the presence of a heterogeneous catalyst

L. B. ITSIKSON, O. N. TSVETKOV and G. YE. KOLESOVA — 686 — Determination of molecular weight distribution of poly-α-olefin oils

S. P. CHERNYKH, S. V. ADEL'SON and T. N. MUKHINA — 691 — Catalytic pyrolysis of hydrocarbons: problems and prospects

V. MACHO, Š. MORAVEK, YA. ILAVSKI and D. MRAVEC — 700 — Means of efficient utilization of petrochemical products in low-tonnage chemistry

KH. M. ALIMARDANOV, E. T. SULEIMANOVA, V. S. MEKHTIYEV and S. V. MUSAYEVA — 708 — Production of cycloolefins by partial dehydrogenation of alicyclic hydrocarbons

A. Z. DOROGOCHINSKII, A. L. PROSKURNIN and V. G. KARAKASHEV — 717 — Production of aromatic and olefin hydrocarbons from inexpensive feedstock on modified zeolite catalysts

VOLUME 31 NUMBER 6 CONTENTS 1991

A. YU. KOLESNIKOV, O. V. NAIDENOV and I. A. MATVEYEVA — 723 — Relict and polycyclic aromatic hydrocarbons as indices of the conditions of genesis of crude oils

A. AIDOGDYYEV and S. R. SERGIYENKO — 737 — Structure and patterns of distribution of hydrocarbons in crude oils from West Turkmenistan fields

A. K. GOLOVKO and YU. V. KORZHOV — 747 — Biphenyls and biphenylalkanes in crude oil from Olen'ye field

T. S. NIKITINA, N. K. LYAPINA, YE. S. BRODSKII, A. A. BERG and A. D. ULENDEYEVA — 754 — Group-structural composition of 450–500 and 500–540°C distillates of Usinsk crude oil

N. K. LYAPINA, R. N. FAKHRETDINOV, M. A. PARFENOVA, R. KH. STARTSEVA and N. V. DAVIDENKO — 763 — Chemical composition of Bashkir residual oils

T. A. SAGACHENKO, N. N. GERASIMOVA, YE. YU. KOVALENKO, V. D. OGORODNIKOV, L. N. ANDREYEVA and V. V. POPOV — 770 — Components of residual oils from West Siberia and the Urals–Volga region

R. N. FAKHRETDINOV, G. G. KHALITOV, N. V. DAVIDENKO, N. K. LYAPINA, A. D. ULENDEYEVA, K. S. FAZLUTDINOV and G. A. TOLSTIKOV — 778 — Metalloporphyrins in residual oil from certain Bashkir fields

N. K. NADIROV, G. A. MUSAYEV, G. V. ROMANOV, S. P. POLOVAYA, T. N. YUSUPOVA and L. M. PETROVA — 783 — Investigation of composition and properties of Kazakhstan oil-bituminous rock

B. L. VOROB'YEV, YU. N. KOSHELEV, YE. V. KHVOROVA, A. A. KHARCHENKO, K. B. KALININA and T. B. VASIL'YEVA — 789 — Aromatization of propane on high-silica zeolite catalysts modified with zinc and gallium

A. L. LAPIDUS, A. YU. KRYLOVA, L. V. SINEVA and M. I. ZHUK — 796 — Hydropolymerization of acetylene in presence of 10%Co/γ-Al_2O_3 catalyst

YE. V. SLIVINSKII, R. A. ARONOVICH, V. I. KURKIN, G. A. KORNEYEVA, A. K. KOBYAKOV, N. N. RZHEVSKAYA, T. B. USHAKOVA and S. M. LOKTEV — 800 — Laws governing formation of isomeric aldehydes during hydroformylation of *n*-butenes in presence of rhodium catalysts

YE. I. BOGOLEPOVA, I. V. VYGODSKAYA, G. A. KLIGER and S. M. LOKTEV — 809 — Metathesis of *o*-allylphenol on alumina–rhenium catalyst promoted by tetrabutyl tin

M. V. KURASHEV, V. N. PERCHENKO, R. SH. ABUBAKIROV, F. KH. INOYATOV and V. L. KHODZHAYEVA — 814 — Alkylation of 4-methoxyphenol by styrene in presence of aluminium tris(4-methoxyphenolate)

KH. M. ALIMARDANOV, E. T. SULEIMANOVA, A. A. AKHUNDOV and V. S. MEKHTIYEV — 820 — Influence of carbon dioxide on oxidative dehydrogenation of methylcyclohexane in presence of modified forms of mordenite

G. V. NIZOVA and G. B. SHUL'PIN — 829 — Photooxygenation of saturated and alkylaromatic hydrocarbons, catalyzed by platinum metal halides

G. A. GALSTYAN and T. M. GALSTYAN — 836 — Kinetics and mechanism of reaction of ozone with aromatic alcohols in acetic acid solution

R. A. GALIMOV, L. B. KRIVONOZHKINA and V. V. ABUSHAYEVA — 845 — Influence of precipitator of non-hydrocarbon components on separation of organometallic compounds in petroleum fractions

S. V. ADEL'SON, T. A. VORONTSOVA and YE. YE. BOBKOVSKAYA — 857 — Certain relationships governing oxidative-catalytic dehydrodimerization of methane

I. BAKSA, S. KIRICHENKOVA, P. KLYUKHO and S. FOLTANOVA — 863 — Oxidative stability of oils in presence of Mannich bases